



# ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV  
Field: Doddridge  
Facility: OXFD 98 Pad

Slot: Slot G  
Well: Conifer Unit 1H  
Wellbore: Conifer Unit 1H PWB



Plot reference wellpath is Conifer Unit 1H PWB Rev-B.0	Grid System: NAD83 / 12M Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellbore measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1145.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (M SLE: Slot G): -1121 feet	Depths are in feet
Other wellbore MDs are referenced to each party's initial MD definition	Created by: wellpath on 2022/08/04, Database: WA_MPL_EASTERNUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OXFD 98 Pad	1697152.730	14254203.636	39°15'11.6600"N	80°47'58.4360"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot G	28.65	8.90	1697161.630	14254232.470
Comment	Conifer Unit 1H		39°15'11.9400"N	80°47'58.3720"W
H&P 317 (RKB) to Ground level (At Slot: Slot G)		-25.5ft		
Mean Sea Level to Ground level (At Slot: Slot G)		-1121ft		
H&P 317 (RKB) to Mean Sea Level		-1146.5ft		

Well Data			
Slot	Well	Wellbore	Wellpath
Slot G	Conifer Unit 1H	Conifer Unit 1H AWB	Conifer Unit 1H AWP Proj: 12721'
Slot G	Conifer Unit 1H	Conifer Unit 1H PWB	Conifer Unit 1H PWP Rev-B.0

Gyrodata MS Gyro <17-1/2"> (100'-287') : 0.18° Inc, 100.00ft MD, 100.00ft TVD, 0.06ft VS

APS EM <12-1/4"> (287')(414'-2655') : 0.47° Inc, 414.00ft MD, 414.00ft TVD, 0.35ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	25.50	0.000	280.000	25.50	0.00	0.00	0.00	0.00
KOP 1	405.00	0.000	280.000	405.00	0.00	0.00	0.00	0.00
Mudgas AC	571.67	5.000	280.000	571.46	1.26	-7.16	3.00	3.30
End of 3D Arc	1250.29	24.292	245.467	1225.65	-52.12	-164.93	3.00	-1.57
Curve KOP	6384.45	24.292	245.467	5914.36	-930.80	-2090.08	0.00	-278.26
POE	7384.88	74.817	342.984	6610.00	-484.96	-2479.40	8.00	292.02
Landing Pt.	7574.67	80.000	342.984	6635.00	-305.59	-2534.29	8.00	449.59
BH	12701.67	80.000	342.984	6635.00	4596.95	-4034.69	0.00	5576.59

APS EM <8-3/4"> (2655')(2751'-6253') : 23.30° Inc, 2751.00ft MD, 2578.17ft TVD, -76.43ft VS

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Gyrodata MS Gyro <17-1/2"> (100'-287') : 100.00ft TVD, 0.03ft N, 0.11ft W  
APS EM <12-1/4"> (287')(414'-2655') : 414.00ft TVD, 0.39ft N, 0.09ft E  
APS EM <8-3/4"> (2655')(2751'-6253') : 2578.17ft TVD, 303.56ft S, 730.56ft W  
Marcellus POE: 7403' MD : 6601.22ft TVD, 470.14ft S, 2473.63ft W  
POE 159

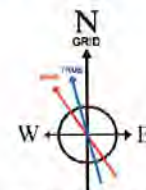
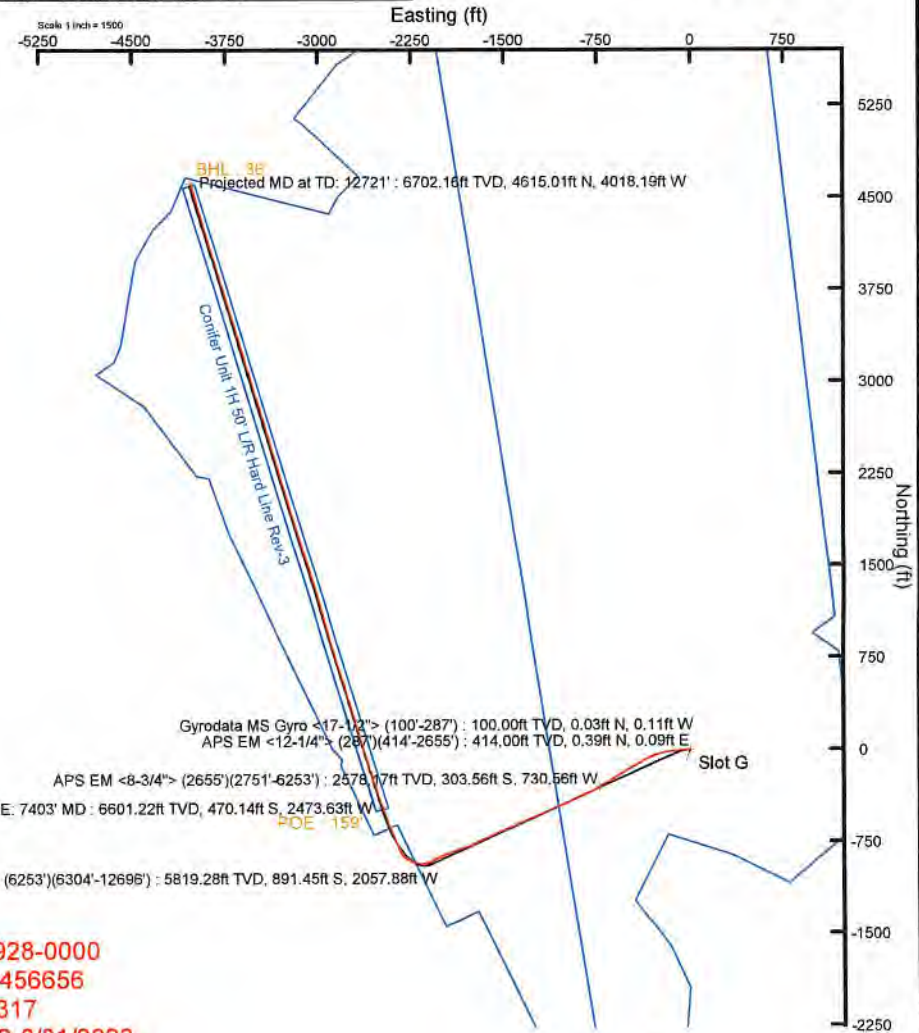
BH AT Curve <8-1/2"> (6253')(6304'-12696') : 5819.28ft TVD, 891.45ft S, 2057.88ft W

BH AT Curve <8-1/2"> (6253')(6304'-12696') : 22.48° Inc, 6304.00ft MD, 5819.28ft TVD, -250.05ft VS

Marcellus POE: 7403' MD : 77.83° Inc, 7403.00ft MD, 6601.22ft TVD, 274.50ft VS

Projected MD at TD: 12721' : 89.48° Inc, 12721.00ft MD, 6702.16ft TVD, 5589.03ft VS

Vertical Section (ft)  
Azimuth 342.98° with reference 0.00 N, 0.00 E



User specified (HDGM) Dip: 66.01° Field: 51645 nT  
Magnetic North is 7.43 degrees West of True North (at 8/25/2022)  
Grid North is 0.13 degrees East of True North  
To correct azimuth from True to Grid subtract 0.13 degrees  
To correct azimuth from Magnetic to Grid subtract 7.56 degrees

API: 47-017-06928-0000  
BH Job #: 111456656  
Rig: H&P 317  
Duration: 8/27/2022-8/31/2022



# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWB
Slot	Slot G		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999604	Report Generated	9/6/2022 at 6:16:33 PM
Convergence at slot	0.13° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	28.65	8.90	1697161.63	14254232.47	39°15'11.9430"N	80°47'58.3720"W
Facility Reference Pt			1697152.73	14254203.83	39°15'11.6600"N	80°47'58.4860"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1146.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1146.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot G)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.98°

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 2 of 9



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Conifer Unit 1H
Field	Doddridge		API	47-017-06928-0000
Facility	OXFD 98 Pad		Wellbore	Conifer Unit 1H AWB
Slot	Slot G			

WELLPATH DATA (144 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	285.780	0.00	0.00	0.00	0.00	1697161.63	14254232.47	39°15'11.9430"N	80°47'58.3720"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	285.780	25.50	0.00	0.00	0.00	1697161.63	14254232.47	39°15'11.9430"N	80°47'58.3720"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.180	285.780	100.00	0.06	0.03	-0.11	1697161.52	14254232.50	39°15'11.9433"N	80°47'58.3735"W	0.12	285.780	0.24	0.24	0.00	Gyrodata MS Gyro <17-1/2"> (100'-287')
200.00	0.090	117.260	200.00	0.09	0.04	-0.19	1697161.44	14254232.51	39°15'11.9434"N	80°47'58.3745"W	0.20	281.246	0.27	-0.09	-168.52	
287.00	0.270	96.370	287.00	-0.04	-0.02	0.07	1697161.70	14254232.45	39°15'11.9429"N	80°47'58.3711"W	0.07	102.377	0.22	0.21	-24.01	
414.00	0.470	327.870	414.00	0.35	0.39	0.09	1697161.72	14254232.86	39°15'11.9469"N	80°47'58.3709"W	0.40	13.036	0.53	0.16	-101.18	APS EM <12-1/4"> (287')(414'-2655')
505.00	2.030	276.610	504.98	1.36	0.89	-1.71	1697159.92	14254233.36	39°15'11.9519"N	80°47'58.3937"W	1.93	297.620	1.95	1.71	-56.33	
595.00	3.860	268.220	594.85	2.79	0.98	-6.32	1697155.31	14254233.45	39°15'11.9529"N	80°47'58.4524"W	6.40	278.844	2.08	2.03	-9.32	
686.00	5.780	268.830	685.53	4.85	0.79	-13.96	1697147.67	14254233.26	39°15'11.9512"N	80°47'58.5495"W	13.99	273.257	2.11	2.11	0.67	
775.00	8.040	267.060	773.87	7.59	0.38	-24.66	1697136.98	14254232.85	39°15'11.9473"N	80°47'58.6855"W	24.66	270.892	2.55	2.54	-1.99	
866.00	10.780	265.960	863.64	11.05	-0.54	-39.51	1697122.14	14254231.93	39°15'11.9385"N	80°47'58.8743"W	39.51	269.214	3.02	3.01	-1.21	
957.00	13.400	265.340	952.62	15.22	-2.00	-58.51	1697103.14	14254230.47	39°15'11.9245"N	80°47'59.1159"W	58.55	268.044	2.88	2.88	-0.68	
1047.00	16.240	265.040	1039.61	20.08	-3.93	-81.45	1697080.21	14254228.54	39°15'11.9059"N	80°47'59.4075"W	81.54	267.234	3.16	3.16	-0.33	
1142.00	19.440	264.130	1130.03	25.91	-6.70	-110.42	1697051.26	14254225.77	39°15'11.8792"N	80°47'59.7758"W	110.62	266.527	3.38	3.37	-0.96	
1236.00	22.950	264.460	1217.66	32.59	-10.07	-144.23	1697017.46	14254222.40	39°15'11.8466"N	80°48'0.2057"W	144.58	266.006	3.74	3.73	0.35	
1331.00	28.000	260.420	1303.40	39.17	-15.57	-184.68	1696977.02	14254216.90	39°15'11.7931"N	80°48'0.7201"W	185.34	265.180	5.62	5.32	-4.25	
1425.00	32.020	254.810	1384.80	42.82	-25.78	-230.52	1696931.21	14254206.70	39°15'11.6932"N	80°48'1.3031"W	231.95	263.618	5.21	4.28	-5.97	
1520.00	32.880	248.940	1464.99	41.81	-41.65	-278.90	1696882.84	14254190.83	39°15'11.5374"N	80°48'1.9185"W	281.99	261.506	3.44	0.91	-6.18	
1615.00	30.330	245.830	1545.90	37.00	-60.74	-324.86	1696836.90	14254171.75	39°15'11.3497"N	80°48'2.5033"W	330.49	259.409	3.18	-2.68	-3.27	
1710.00	26.490	240.570	1629.45	29.46	-80.99	-365.22	1696796.56	14254151.52	39°15'11.1505"N	80°48'3.0169"W	374.09	257.497	4.82	-4.04	-5.54	
1804.00	26.680	238.140	1713.52	19.55	-102.43	-401.40	1696760.39	14254130.08	39°15'10.9394"N	80°48'3.4775"W	414.26	255.685	1.17	0.20	-2.59	
1899.00	25.350	240.570	1798.89	9.72	-123.68	-437.23	1696724.57	14254108.84	39°15'10.7301"N	80°48'3.9335"W	454.39	254.205	1.79	-1.40	2.56	
1994.00	25.010	240.230	1884.86	0.91	-143.64	-472.37	1696689.44	14254088.88	39°15'10.5336"N	80°48'4.3808"W	493.73	253.086	0.39	-0.36	-0.36	
2088.00	25.090	239.620	1970.02	-8.08	-163.59	-506.82	1696655.02	14254068.95	39°15'10.3372"N	80°48'4.8192"W	532.56	252.111	0.29	0.09	-0.65	
2183.00	23.410	239.120	2056.64	-17.25	-183.46	-540.39	1696621.45	14254049.08	39°15'10.1415"N	80°48'5.2465"W	570.68	251.248	1.78	-1.77	-0.53	
2277.00	22.640	237.670	2143.15	-26.50	-202.72	-571.71	1696590.15	14254029.83	39°15'9.9518"N	80°48'5.6452"W	606.58	250.476	1.02	-0.82	-1.54	
2372.00	22.640	236.810	2230.83	-36.42	-222.51	-602.46	1696559.41	14254010.05	39°15'9.7569"N	80°48'6.0366"W	642.23	249.729	0.35	0.00	-0.91	
2466.00	23.600	236.640	2317.28	-46.75	-242.76	-633.31	1696528.57	14253989.81	39°15'9.5574"N	80°48'6.4294"W	678.25	249.027	1.02	1.02	-0.18	
2560.00	23.950	239.000	2403.30	-56.66	-262.94	-665.39	1696496.51	14253969.64	39°15'9.3587"N	80°48'6.8377"W	715.45	248.438	1.08	0.37	2.51	
2655.00	23.810	238.790	2490.17	-66.02	-282.80	-698.31	1696463.59	14253949.78	39°15'9.1630"N	80°48'7.2568"W	753.41	247.953	0.17	-0.15	-0.22	

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'  
Page 3 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWP
Slot	Slot G		

WELLPATH DATA (144 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2751.00	23.300	235.640	2578.17	-76.43	-303.56	-730.56	1696431.36	14253929.03	39°15'8.9586"N	80°48'7.6673"W	791.12	247.436	1.41	-0.53	-3.28	APS EM <8-3/4"> (2655')(2751'-6253')
2845.00	24.330	240.750	2664.18	-86.07	-323.52	-762.81	1696399.13	14253909.08	39°15'8.7620"N	80°48'8.0778"W	828.58	247.018	2.45	1.10	5.44	
2940.00	24.990	247.660	2750.53	-92.08	-340.71	-798.45	1696363.50	14253891.89	39°15'8.5929"N	80°48'8.5313"W	868.11	246.891	3.11	0.69	7.27	
3034.00	25.040	247.240	2835.71	-95.91	-355.95	-835.16	1696326.80	14253876.66	39°15'8.4430"N	80°48'8.9984"W	907.85	246.916	0.20	0.05	-0.45	
3129.00	24.490	246.130	2921.98	-100.27	-371.70	-871.71	1696290.27	14253860.92	39°15'8.2881"N	80°48'9.4634"W	947.65	246.906	0.76	-0.58	-1.17	
3224.00	23.920	243.260	3008.63	-105.87	-388.33	-906.91	1696255.08	14253844.29	39°15'8.1245"N	80°48'9.9114"W	986.56	246.820	1.38	-0.60	-3.02	
3318.00	22.950	240.170	3094.88	-113.15	-406.03	-939.83	1696222.17	14253826.61	39°15'7.9503"N	80°48'10.3303"W	1023.79	246.635	1.67	-1.03	-3.29	
3413.00	23.500	243.990	3182.18	-120.22	-423.55	-972.92	1696189.09	14253809.09	39°15'7.7779"N	80°48'10.7515"W	1061.12	246.475	1.69	0.58	4.02	
3508.00	23.840	249.110	3269.20	-124.47	-438.70	-1007.89	1696154.14	14253793.95	39°15'7.6289"N	80°48'11.1963"W	1099.22	246.478	2.19	0.36	5.39	
3602.00	22.610	247.120	3355.58	-127.60	-452.50	-1042.29	1696119.76	14253780.15	39°15'7.4932"N	80°48'11.6340"W	1136.27	246.532	1.55	-1.31	-2.12	
3699.00	24.460	248.840	3444.51	-130.95	-467.00	-1078.20	1696083.86	14253765.66	39°15'7.3507"N	80°48'12.0908"W	1174.99	246.581	2.03	1.91	1.77	
3794.00	23.990	247.390	3531.15	-134.25	-481.52	-1114.37	1696047.71	14253751.14	39°15'7.2079"N	80°48'12.5510"W	1213.95	246.631	0.80	-0.49	-1.53	
3888.00	22.670	244.070	3617.46	-138.92	-496.79	-1148.30	1696013.79	14253735.87	39°15'7.0577"N	80°48'12.9828"W	1251.16	246.605	1.98	-1.40	-3.53	
3983.00	24.030	245.350	3704.68	-144.33	-512.87	-1182.35	1695979.75	14253719.81	39°15'6.8996"N	80°48'13.4161"W	1288.79	246.550	1.53	1.43	1.35	
4078.00	22.920	243.460	3791.82	-149.95	-529.20	-1216.48	1695945.64	14253703.48	39°15'6.7388"N	80°48'13.8504"W	1326.60	246.490	1.41	-1.17	-1.99	
4172.00	24.040	248.880	3878.04	-154.35	-544.28	-1250.72	1695911.41	14253688.41	39°15'6.5905"N	80°48'14.2860"W	1364.02	246.483	2.59	1.19	5.77	
4267.00	25.220	249.780	3964.40	-156.86	-558.25	-1287.76	1695874.38	14253674.44	39°15'6.4533"N	80°48'14.7573"W	1403.56	246.563	1.30	1.24	0.95	
4361.00	22.530	244.400	4050.36	-160.67	-572.96	-1322.81	1695839.35	14253659.74	39°15'6.3087"N	80°48'15.2032"W	1441.56	246.581	3.68	-2.86	-5.72	
4456.00	22.230	244.840	4138.20	-165.93	-588.46	-1355.49	1695806.68	14253644.24	39°15'6.1561"N	80°48'15.6190"W	1477.71	246.533	0.36	-0.32	0.46	
4551.00	21.330	242.620	4226.42	-171.58	-604.05	-1387.09	1695775.09	14253628.66	39°15'6.0027"N	80°48'16.0212"W	1512.91	246.468	1.28	-0.95	-2.34	
4646.00	23.920	245.230	4314.10	-177.29	-620.07	-1419.93	1695742.26	14253612.65	39°15'5.8451"N	80°48'16.4391"W	1549.41	246.410	2.92	2.73	2.75	
4740.00	25.600	251.510	4399.47	-180.38	-634.49	-1456.50	1695705.71	14253598.23	39°15'5.7033"N	80°48'16.9044"W	1588.70	246.461	3.32	1.79	6.68	
4835.00	24.500	247.070	4485.54	-182.93	-648.68	-1494.11	1695668.11	14253584.05	39°15'5.5639"N	80°48'17.3828"W	1628.85	246.532	2.29	-1.16	-4.67	
4930.00	22.700	243.720	4572.60	-187.91	-664.47	-1528.70	1695633.54	14253568.26	39°15'5.4085"N	80°48'17.8229"W	1666.86	246.507	2.36	-1.89	-3.53	
5025.00	23.350	244.840	4660.03	-193.53	-680.59	-1562.17	1695600.08	14253552.15	39°15'5.2499"N	80°48'18.2488"W	1703.99	246.459	0.83	0.68	1.18	
5119.00	23.570	246.290	4746.26	-198.35	-696.07	-1596.24	1695566.03	14253536.68	39°15'5.0977"N	80°48'18.6823"W	1741.41	246.440	0.66	0.23	1.54	
5214.00	25.430	245.370	4832.70	-203.27	-712.21	-1632.18	1695530.10	14253520.55	39°15'4.9389"N	80°48'19.1396"W	1780.80	246.426	2.00	1.96	-0.97	
5309.00	27.090	245.170	4917.90	-208.91	-729.79	-1670.35	1695491.94	14253502.97	39°15'4.7659"N	80°48'19.6253"W	1822.82	246.399	1.75	1.75	-0.21	
5403.00	25.970	242.910	5002.00	-215.42	-748.15	-1708.10	1695454.21	14253484.61	39°15'4.5852"N	80°48'20.1057"W	1864.76	246.346	1.60	-1.19	-2.40	
5498.00	24.640	243.630	5087.88	-222.27	-766.42	-1744.36	1695417.96	14253466.35	39°15'4.4054"N	80°48'20.5671"W	1905.31	246.281	1.44	-1.40	0.76	

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 4 of 9



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Conifer Unit 1H
Field	Doddridge		API	47-017-06928-0000
Facility	OXFD 98 Pad		Wellbore	Conifer Unit 1H AWB
Slot	Slot G			

WELLPATH DATA (144 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5592.00	24.630	248.710	5173.34	-226.91	-782.24	-1780.17	1695382.16	14253450.54	39°15'4.2499"N	80°48'21.0228"W	1944.46	246.278	2.25	-0.01	5.40	
5686.00	27.940	253.010	5257.61	-228.36	-795.79	-1819.50	1695342.85	14253436.99	39°15'4.1168"N	80°48'21.5230"W	1985.92	246.377	4.06	3.52	4.57	
5780.00	26.300	251.530	5341.28	-228.88	-808.83	-1860.32	1695302.05	14253423.97	39°15'3.9888"N	80°48'22.0422"W	2028.54	246.502	1.89	-1.74	-1.57	
5875.00	23.270	249.440	5427.52	-230.57	-822.09	-1897.86	1695264.53	14253410.71	39°15'3.8585"N	80°48'22.5198"W	2068.26	246.579	3.32	-3.19	-2.20	
5969.00	22.530	249.250	5514.11	-232.89	-834.99	-1932.08	1695230.32	14253397.81	39°15'3.7317"N	80°48'22.9552"W	2104.79	246.627	0.79	-0.79	-0.20	
6064.00	23.490	247.660	5601.55	-235.83	-848.63	-1966.62	1695195.80	14253384.17	39°15'3.5976"N	80°48'23.3945"W	2141.91	246.659	1.20	1.01	-1.67	
6159.00	26.770	245.100	5687.55	-240.52	-864.84	-2003.55	1695158.88	14253367.97	39°15'3.4382"N	80°48'23.8644"W	2182.24	246.652	3.64	3.45	-2.69	
6253.00	24.080	243.190	5772.44	-246.68	-882.41	-2039.87	1695122.57	14253350.41	39°15'3.2653"N	80°48'24.3266"W	2222.55	246.608	2.99	-2.86	-2.03	
6304.00	22.480	243.510	5819.28	-250.05	-891.45	-2057.88	1695104.57	14253341.37	39°15'3.1763"N	80°48'24.5558"W	2242.67	246.578	3.15	-3.14	0.63	BH AT Curve <8-1/2"> (6253')(6304'-12696')
6367.00	24.800	241.850	5876.99	-254.59	-903.06	-2080.32	1695082.14	14253329.77	39°15'3.0621"N	80°48'24.8413"W	2267.87	246.534	3.83	3.68	-2.63	
6461.00	25.000	250.930	5962.29	-259.10	-918.86	-2116.49	1695045.99	14253313.98	39°15'2.9067"N	80°48'25.3015"W	2307.34	246.532	4.07	0.21	9.66	
6556.00	24.520	269.340	6048.68	-254.26	-925.65	-2155.23	1695007.26	14253307.19	39°15'2.8404"N	80°48'25.7942"W	2345.60	246.757	8.10	-0.51	19.38	
6650.00	26.970	283.460	6133.43	-237.94	-920.91	-2195.51	1694967.00	14253311.93	39°15'2.8881"N	80°48'26.3060"W	2380.82	247.244	7.01	2.61	15.02	
6745.00	30.570	292.920	6216.73	-211.48	-906.47	-2238.75	1694923.78	14253326.36	39°15'3.0316"N	80°48'26.8553"W	2415.30	247.957	6.10	3.79	9.96	
6804.00†	33.390	302.645	6266.80	-189.45	-891.86	-2266.26	1694896.27	14253340.96	39°15'3.1767"N	80°48'27.2046"W	2435.44	248.518	9.94	4.78	16.48	Sycamore: 6804' MD
6839.00	35.380	307.700	6295.69	-173.84	-880.47	-2282.39	1694880.15	14253352.35	39°15'3.2896"N	80°48'27.4093"W	2446.33	248.905	9.94	5.69	14.44	
6934.00	40.160	325.910	6371.00	-121.91	-838.12	-2321.47	1694841.09	14253394.68	39°15'3.7090"N	80°48'27.9049"W	2468.13	250.149	12.73	5.03	19.17	
6974.00†	43.424	331.168	6400.83	-96.11	-815.38	-2335.33	1694827.23	14253417.41	39°15'3.9340"N	80°48'28.0806"W	2473.59	250.753	11.97	8.16	13.15	Middlesex: 6974' MD
7028.00	48.160	337.310	6438.49	-57.88	-780.53	-2352.06	1694810.51	14253452.25	39°15'4.2789"N	80°48'28.2923"W	2478.19	251.642	11.97	8.77	11.37	
7123.00	57.470	338.140	6495.84	17.41	-710.56	-2380.69	1694781.89	14253522.20	39°15'4.9710"N	80°48'28.6543"W	2484.46	253.381	9.82	9.80	0.87	
7191.00†	62.367	338.331	6529.92	76.03	-655.92	-2402.49	1694760.09	14253576.81	39°15'5.5115"N	80°48'28.9300"W	2490.43	254.729	7.21	7.20	0.28	Burkett: 7191' MD
7217.00	64.240	338.400	6541.60	99.18	-634.33	-2411.06	1694751.53	14253598.39	39°15'5.7250"N	80°48'29.0383"W	2493.11	255.260	7.21	7.20	0.26	
7261.00†	67.663	338.600	6559.53	139.23	-596.95	-2425.78	1694736.81	14253635.75	39°15'6.0948"N	80°48'29.2244"W	2498.15	256.175	7.79	7.78	0.45	Tully: 7261' MD
7312.00	71.630	338.820	6577.26	186.91	-552.41	-2443.14	1694719.46	14253680.28	39°15'6.5354"N	80°48'29.4439"W	2504.81	257.259	7.79	7.78	0.43	
7371.00†	75.646	339.905	6593.88	243.39	-499.44	-2463.08	1694699.53	14253733.23	39°15'7.0594"N	80°48'29.6959"W	2513.21	258.537	7.03	6.81	1.84	Hamilton: 7371' MD
7403.00†	77.826	340.477	6601.22	274.50	-470.14	-2473.63	1694688.98	14253762.52	39°15'7.3492"N	80°48'29.8293"W	2517.92	259.239	7.03	6.81	1.79	Marcellus POE: 7403' MD
7406.00	78.030	340.530	6601.85	277.43	-467.37	-2474.61	1694688.00	14253765.28	39°15'7.3766"N	80°48'29.8417"W	2518.36	259.305	7.03	6.81	1.77	
7501.00	81.780	341.220	6618.50	370.88	-379.02	-2505.25	1694657.38	14253853.60	39°15'8.2504"N	80°48'30.2287"W	2533.76	261.397	4.01	3.95	0.73	
7595.00	89.510	343.780	6625.63	464.52	-289.70	-2533.40	1694629.24	14253942.88	39°15'9.1338"N	80°48'30.5842"W	2549.91	263.476	8.66	8.22	2.72	
7690.00	89.850	341.610	6626.16	559.52	-199.01	-2561.66	1694600.99	14254033.54	39°15'10.0308"N	80°48'30.9408"W	2569.37	265.558	2.31	0.36	-2.28	

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 5 of 9



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Conifer Unit 1H
Field	Doddridge		API	47-017-06928-0000
Facility	OXFD 98 Pad		Wellbore	Conifer Unit 1H AWP
Slot	Slot G			

WELLPATH DATA (144 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7784.00	89.600	343.180	6626.61	653.51	-109.42	-2590.08	1694572.58	14254123.10	39°15'10.9169"N	80°48'31.2999"W	2592.39	267.581	1.69	-0.27	1.67	
7879.00	89.200	342.980	6627.61	748.50	-18.53	-2617.73	1694544.94	14254213.94	39°15'11.8158"N	80°48'31.6489"W	2617.80	269.594	0.47	-0.42	-0.21	
7973.00	89.720	342.920	6628.49	842.50	71.33	-2645.29	1694517.39	14254303.77	39°15'12.7045"N	80°48'31.9968"W	2646.25	271.545	0.56	0.55	-0.06	
8068.00	90.120	343.640	6628.63	937.49	162.31	-2672.62	1694490.07	14254394.72	39°15'13.6044"N	80°48'32.3418"W	2677.55	273.475	0.87	0.42	0.76	
8162.00	89.110	343.140	6629.26	1031.49	252.39	-2699.49	1694463.21	14254484.76	39°15'14.4952"N	80°48'32.6810"W	2711.26	275.341	1.20	-1.07	-0.53	
8257.00	89.600	342.720	6630.33	1126.48	343.20	-2727.38	1694435.34	14254575.53	39°15'15.3933"N	80°48'33.0330"W	2748.88	277.172	0.68	0.52	-0.44	
8351.00	89.080	344.950	6631.41	1220.46	433.47	-2753.54	1694409.18	14254665.76	39°15'16.2861"N	80°48'33.3632"W	2787.45	278.946	2.44	-0.55	2.37	
8446.00	89.050	342.250	6632.96	1315.43	524.58	-2780.36	1694382.38	14254756.84	39°15'17.1872"N	80°48'33.7017"W	2829.41	280.685	2.84	-0.03	-2.84	
8541.00	89.080	342.630	6634.51	1410.42	615.14	-2809.02	1694353.73	14254847.37	39°15'18.0829"N	80°48'34.0636"W	2875.58	282.352	0.40	0.03	0.40	
8635.00	89.380	342.000	6635.77	1504.40	704.89	-2837.57	1694325.19	14254936.88	39°15'18.9685"N	80°48'34.4241"W	2923.76	283.947	0.74	0.32	-0.67	
8730.00	88.890	343.240	6637.21	1599.38	795.34	-2865.94	1694296.83	14255027.49	39°15'19.8651"N	80°48'34.7824"W	2974.26	285.510	1.40	-0.52	1.31	
8825.00	88.680	344.510	6639.22	1694.35	886.58	-2892.32	1694270.46	14255118.70	39°15'20.7674"N	80°48'35.1153"W	3025.15	287.042	1.35	-0.22	1.34	
8919.00	89.380	342.220	6640.81	1788.33	976.63	-2919.23	1694243.57	14255208.71	39°15'21.6580"N	80°48'35.4549"W	3078.26	288.498	2.55	0.74	-2.44	
9014.00	88.210	343.730	6642.81	1883.30	1067.44	-2947.03	1694215.77	14255299.48	39°15'22.5561"N	80°48'35.8060"W	3134.40	289.911	2.01	-1.23	1.59	
9108.00	90.060	344.910	6644.23	1977.26	1157.93	-2972.43	1694190.38	14255389.93	39°15'23.4510"N	80°48'36.1265"W	3190.01	291.284	2.33	1.97	1.26	
9202.00	88.740	342.180	6645.22	2071.24	1248.06	-2999.06	1694163.77	14255480.03	39°15'24.3424"N	80°48'36.4625"W	3248.38	292.595	3.23	-1.40	-2.90	
9297.00	88.430	342.990	6647.56	2166.21	1338.68	-3027.48	1694135.36	14255570.61	39°15'25.2387"N	80°48'36.8214"W	3310.24	293.854	0.91	-0.33	0.85	
9392.00	89.850	345.970	6648.99	2261.15	1430.19	-3052.89	1694109.95	14255662.09	39°15'26.1437"N	80°48'37.1420"W	3371.29	295.102	3.47	1.49	3.14	
9486.00	88.150	339.870	6650.63	2355.09	1519.99	-3080.48	1694082.38	14255751.85	39°15'27.0318"N	80°48'37.4904"W	3435.07	296.263	6.74	-1.81	-6.49	
9581.00	88.770	343.960	6653.18	2450.02	1610.24	-3109.95	1694052.91	14255842.07	39°15'27.9244"N	80°48'37.8627"W	3502.10	297.374	4.35	0.66	4.31	
9675.00	87.260	341.820	6656.44	2543.95	1700.02	-3137.59	1694025.29	14255931.81	39°15'28.8123"N	80°48'38.2116"W	3568.55	298.450	2.79	-1.61	-2.28	
9770.00	86.800	343.120	6661.36	2638.82	1790.48	-3166.17	1693996.73	14256022.24	39°15'29.7071"N	80°48'38.5725"W	3637.37	299.488	1.45	-0.48	1.37	
9864.00	85.690	343.080	6667.52	2732.62	1880.23	-3193.43	1693969.47	14256111.95	39°15'30.5947"N	80°48'38.9167"W	3705.84	300.489	1.18	-1.18	-0.04	
9959.00	89.510	343.280	6671.50	2827.51	1971.07	-3220.89	1693942.02	14256202.75	39°15'31.4931"N	80°48'39.2634"W	3776.14	301.465	4.03	4.02	0.21	
10054.00	89.450	343.290	6672.36	2922.51	2062.05	-3248.21	1693914.71	14256293.70	39°15'32.3929"N	80°48'39.6083"W	3847.46	302.408	0.06	-0.06	0.01	
10149.00	89.510	343.270	6673.22	3017.50	2153.03	-3275.54	1693887.39	14256384.64	39°15'33.2927"N	80°48'39.9534"W	3919.79	303.317	0.07	0.06	-0.02	
10243.00	89.690	343.490	6673.88	3111.50	2243.10	-3302.43	1693860.52	14256474.68	39°15'34.1834"N	80°48'40.2928"W	3992.19	304.185	0.30	0.19	0.23	
10338.00	89.080	342.910	6674.90	3206.49	2334.04	-3329.89	1693833.07	14256565.58	39°15'35.0828"N	80°48'40.6394"W	4066.43	305.028	0.89	-0.64	-0.61	
10433.00	89.480	343.050	6676.09	3301.48	2424.87	-3357.69	1693805.28	14256656.38	39°15'35.9812"N	80°48'40.9905"W	4141.75	305.836	0.45	0.42	0.15	
10527.00	90.000	343.740	6676.52	3395.48	2514.95	-3384.65	1693778.43	14256746.42	39°15'36.8720"N	80°48'41.3296"W	4216.65	306.615	0.92	0.55	0.73	

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 6 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWB
Slot	Slot G		

WELLPATH DATA (144 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
10622.00	90.180	344.000	6676.37	3490.47	2606.21	-3410.95	1693752.04	14256837.64	39°15'37.7746"N	80°48'41.6627"W	4292.65	307.382	0.33	0.19	0.27	
10717.00	88.770	342.350	6677.24	3585.46	2697.13	-3438.44	1693724.56	14256928.53	39°15'38.6738"N	80°48'42.0099"W	4370.06	308.111	2.28	-1.48	-1.74	
10811.00	88.950	342.470	6679.11	3679.43	2786.72	-3466.84	1693696.17	14257018.08	39°15'39.5598"N	80°48'42.3686"W	4448.01	308.793	0.23	0.19	0.13	
10906.00	89.720	342.490	6680.21	3774.42	2877.31	-3495.44	1693667.58	14257108.63	39°15'40.4558"N	80°48'42.7297"W	4527.36	309.460	0.81	0.81	0.02	
11001.00	91.540	344.380	6679.17	3869.41	2968.35	-3522.52	1693640.51	14257199.64	39°15'41.3562"N	80°48'43.0716"W	4606.44	310.120	2.76	1.92	1.99	
11095.00	89.140	341.480	6678.61	3963.39	3058.19	-3550.11	1693612.94	14257289.44	39°15'42.2447"N	80°48'43.4200"W	4685.70	310.743	4.00	-2.55	-3.09	
11190.00	88.400	343.750	6680.65	4058.36	3148.83	-3578.48	1693584.57	14257380.04	39°15'43.1411"N	80°48'43.7784"W	4766.62	311.346	2.51	-0.78	2.39	
11284.00	88.370	343.300	6683.30	4152.32	3238.93	-3605.13	1693557.93	14257470.11	39°15'44.0322"N	80°48'44.1148"W	4846.40	311.937	0.48	-0.03	-0.48	
11379.00	88.830	343.060	6685.62	4247.29	3329.84	-3632.61	1693530.46	14257560.98	39°15'44.9313"N	80°48'44.4618"W	4927.85	312.510	0.55	0.48	-0.25	
11474.00	88.830	342.730	6687.56	4342.27	3420.62	-3660.55	1693502.54	14257651.72	39°15'45.8291"N	80°48'44.8145"W	5010.01	313.059	0.35	0.00	-0.35	
11568.00	89.290	342.270	6689.10	4436.25	3510.25	-3688.81	1693474.29	14257741.33	39°15'46.7156"N	80°48'45.1715"W	5092.07	313.579	0.69	0.49	-0.49	
11663.00	89.140	343.000	6690.40	4531.24	3600.92	-3717.16	1693445.95	14257831.95	39°15'47.6123"N	80°48'45.5295"W	5175.31	314.090	0.78	-0.16	0.77	
11757.00	88.980	342.810	6691.94	4625.23	3690.75	-3744.79	1693418.33	14257921.75	39°15'48.5007"N	80°48'45.8784"W	5257.86	314.584	0.26	-0.17	-0.20	
11852.00	89.290	343.000	6693.38	4720.21	3781.54	-3772.71	1693390.42	14258012.51	39°15'49.3987"N	80°48'46.2310"W	5341.67	315.067	0.38	0.33	0.20	
11947.00	89.380	343.090	6694.48	4815.21	3872.41	-3800.41	1693362.73	14258103.33	39°15'50.2973"N	80°48'46.5809"W	5425.74	315.538	0.13	0.09	0.09	
12041.00	89.320	343.170	6695.55	4909.20	3962.36	-3827.69	1693335.46	14258193.25	39°15'51.1869"N	80°48'46.9253"W	5509.22	315.990	0.11	-0.06	0.09	
12135.00	89.540	342.230	6696.48	5003.19	4052.10	-3855.64	1693307.52	14258282.95	39°15'52.0745"N	80°48'47.2783"W	5593.34	316.423	1.03	0.23	-1.00	
12230.00	88.400	343.670	6698.19	5098.18	4142.90	-3883.49	1693279.68	14258373.72	39°15'52.9725"N	80°48'47.6300"W	5678.48	316.851	1.93	-1.20	1.52	
12323.00	90.090	343.220	6699.42	5191.16	4232.04	-3909.99	1693253.20	14258462.82	39°15'53.8541"N	80°48'47.9645"W	5761.78	317.265	1.88	1.82	-0.48	
12418.00	89.200	343.950	6700.00	5286.15	4323.16	-3936.83	1693226.36	14258553.91	39°15'54.7553"N	80°48'48.3035"W	5847.08	317.678	1.21	-0.94	0.77	
12513.00	88.950	344.990	6701.54	5381.11	4414.68	-3962.27	1693200.94	14258645.39	39°15'55.6603"N	80°48'48.6244"W	5932.03	318.091	1.13	-0.26	1.09	
12608.00	90.550	344.410	6701.95	5476.06	4506.31	-3987.33	1693175.89	14258736.98	39°15'56.5665"N	80°48'48.9407"W	6017.11	318.497	1.79	1.68	-0.61	
12696.00	89.480	343.990	6701.93	5564.04	4590.98	-4011.29	1693151.94	14258821.62	39°15'57.4038"N	80°48'49.2431"W	6096.52	318.855	1.31	-1.22	-0.48	
12721.00‡	89.480	343.990	6702.16	5589.03	4615.01	-4018.19	1693145.04	14258845.64	39°15'57.6415"N	80°48'49.3302"W	6119.16	318.955	0.00	0.00	0.00	Projected MD at TD: 12721'

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# Actual Wellpath Report

Conifer Unit 1H AWP Proj: 12721'

Page 7 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWB
Slot	Slot G		

HOLE & CASING SECTIONS - Ref Wellbore: Conifer Unit 1H AWB Ref Wellpath: Conifer Unit 1H AWP Proj: 12721'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	126.00	100.50	25.50	126.00	0.00	0.00	0.05	-0.18
17.5in Open Hole	126.00	347.00	221.00	126.00	347.00	0.05	-0.18	0.06	0.22
13.375in Casing Surface	25.50	327.00	301.50	25.50	327.00	0.00	0.00	0.01	0.20
12.25in Open Hole	347.00	2739.00	2392.00	347.00	2567.15	0.06	0.22	-300.89	-726.63
9.625in Casing Intermediate	25.50	2719.00	2693.50	25.50	2548.80	0.00	0.00	-296.49	-720.01
8.75in Open Hole	2739.00	6325.00	3586.00	2567.15	5838.63	-300.89	-726.63	-895.13	-2065.17
8.5in Open Hole	6325.00	12721.00	6396.00	5838.63	6702.16	-895.13	-2065.17	4615.01	-4018.19
5.5in Casing Production	25.50	12701.00	12675.50	25.50	6701.97	0.00	0.00	4595.79	-4012.67

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Conifer Unit 1H AWP Proj: 12721'  
Page 8 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWB
Slot	Slot G		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Conifer Unit 1H POE Rev-2	6610.00	-593.84	-2446.07	1694716.53	14253638.87	39°15'6.1260"N	80°48'29.4823"W	point
Conifer Unit 1H POE Rev-3	6610.00	-484.96	-2479.40	1694683.22	14253747.71	39°15'7.2029"N	80°48'29.9030"W	point
Conifer Unit 1H BHL Rev-2	6635.00	4698.31	-4065.71	1693097.54	14258928.91	39°15'58.4658"N	80°48'49.9322"W	point
Conifer Unit 1H BHL Rev-3	6635.00	4596.95	-4034.69	1693128.55	14258827.59	39°15'57.4633"N	80°48'49.5404"W	point
Conifer Unit 1H LP Rev-2	6635.00	-305.59	-2534.29	1694628.35	14253927.00	39°15'8.9768"N	80°48'30.5959"W	point
Conifer Unit 1H 50' L/R Hard Line Rev-3	7000.00	2056.00	-3257.04	1693905.88	14256287.65	39°15'32.3332"N	80°48'39.7207"W	rectangle
2D Rectangle 5314.57 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Conifer Unit 1H AWB Ref Wellpath: Conifer Unit 1H AWP Proj: 12721'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	287.00	Gyrodatta 2015 - GC+WIR+DPIPE	01_Gyrodatta MS Gyro <17-1/2"> (100'-287')	Conifer Unit 1H AWB	8/25/2022
287.00	2655.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (287')(414'-2655')	Conifer Unit 1H AWB	8/25/2022
2655.00	6253.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2655')(2751'-6253')	Conifer Unit 1H AWB	8/25/2022
6253.00	12721.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6253')(6304'-12696')	Conifer Unit 1H AWB	8/25/2022

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Conifer Unit 1H AWP Proj: 12721'

Page 9 of 9



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Operator	ANTERO RESOURCES CORPORATION	Well	Conifer Unit 1H
Field	Doddridge	API	47-017-06928-0000
Facility	OXFD 98 Pad	Wellbore	Conifer Unit 1H AWB
Slot	Slot G		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-017-06928-0000            BH Job #: 111456656            Rig: H&amp;P 317            Duration: 8/27/2022-8/31/2022            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-287')            APS EM &lt;12-1/4"&gt; (287')(414'-2655')            APS EM &lt;8-3/4"&gt; (2655')(2751'-6253')            BH AT Curve &lt;8-1/2"&gt; (6253')(6304'-12696')            Sycamore: 6804' MD            Middlesex: 6974' MD            Burkett: 7191' MD            Tully: 7261' MD            Hamilton: 7371' MD            Marcellus POE: 7403' MD            Projected MD at TD: 12721'</p>

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